



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/553,316	04/20/2000	Jyunichi Kamakura	21.1977	4585
21171 75	90 02/19/2004		EXAM	INER
STAAS & HALSEY LLP SUITE 700			NAHAR, QAMRUN	
	RK AVENUE, N.W.		ART UNIT	PAPER NUMBER
WASHINGTON	N, DC 20005		2124	11
			DATE MAILED: 02/19/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

1

•		•	Į.			
	Application No.	Applicant(s)				
	09/553,316	KAMAKURA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Qamrun Nahar	2124				
Th MAILING DATE of this communication app Period for Reply	pears on the cover she tw	vith the correspondenc address -	-			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a ly within the statutory minimum of thi will apply and will expire SIX (6) MO a, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communica BANDONED (35 U.S.C. § 133).	ition.			
Status						
1) Responsive to communication(s) filed on 05 D	December 2003.					
	s action is non-final.					
Disposition of Claims						
4) □ Claim(s) 1-18 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) □ Claim(s) 1-18 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine						
10) The drawing(s) filed on is/are: a) acc						
Applicant may not request that any objection to the	• • • • • • • • • • • • • • • • • • • •	• •	4(4)			
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	•	-, , ,				
Priority under 35 U.S.C. § 119						
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Its have been received in Drity documents have bee Bau (PCT Rule 17.2(a)).	Application No n received in this National Stage				
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	Paper No	Summary (PTO-413) b(s)/Mail Date Informal Patent Application (PTO-152)				
	~					

Art Unit: 2124

DETAILED ACTION

- 1. This action is in response to the RCE filed on 12/5/03.
- 2. The objections to claims 6 and 12 are withdrawn in view of applicant's amendments.
- 3. The rejections under 35 USC §112, second paragraph, to claims 1, 7 and 13 are withdrawn in view of applicant's amendments.
- 4. The rejection under 35 U.S.C. 103(a) as being unpatentable over Mattson, Jr. (U.S. 6,430,741) to claims 6, 12 and 18 is moot in view of the new ground(s) of rejection.
- 5. Claims 1, 6, 7, 12, 13 and 18 are amended.
- 6. Claims 1-18 are pending.
- 7. Claims 1-18 are rejected under 35 U.S.C. 102(e) as being anticipated by Mattson, Jr. (U.S. 6,430,741).

Response to Amendment

Claim Rejections - 35 USC § 102

- 8. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 9. Claims 1-18 are rejected under 35 U.S.C. 102(e) as being anticipated by Mattson, Jr. (U.S. 6,430,741).

Per Claim 1 (Amended):

Art Unit: 2124

Mattson, Jr. teaches a system analysis apparatus for analyzing a system containing one or a plurality of programs comprising means for examining an access state and a number of accesses of a data item in said program (col.3, li.31-40 and col.5, li.9-25) and an analyzer for analyzing degree of association relationships (col.3, li.31-40) (discussing the color-coding of elements to distinguish between the number of data accesses) between processes and data items based on said access state and the number of accesses of the data item, each said process being at least one of a program, a set of programs and a program section (col.1, li.66 to col.2, li.15; col.2, li.25-28; col.3, li.31-40; the color-coding of elements defines an access state; for example, Black would indicate a high access level, Pink would indicate a low access level, and Red would indicate unaccessed items).

Per Claim 2:

Mattson, Jr. further teaches wherein said analyzer comprises means for quantifying the types and number of accesses, which are included in the data item access state, and generating quantified data item access state data (col.3, li.14-24).

Per Claim 3:

Mattson, Jr. further teaches wherein said analyzer comprises means for correcting said quantified data item access state data according to an external requirement including a system design requirement (col.1, li.66 to col.2, li.15; col.4, li.44-56; fig.1A, ref.102).

Per Claim 4:

Art Unit: 2124

Mattson, Jr. further teaches wherein said analyzer comprises means for collecting

processes that access to a data item satisfying a predetermined condition in said quantified data

item access state data (col.5, li.9-13; col.6, li.35-48).

Per Claim 5:

Mattson, Jr. further teaches wherein said analyzer comprises means for presenting at least

one of a partitioning pattern of the data items ('visualization tool") and a division pattern of the

processes, using the quantified data item access state data and the collected process information

(col.10, li.25-41).

Per Claim 6 (Amended):

Mattson, Jr. further teaches wherein said division pattern of the processes comprises a

presentation of process interfaces ("[for functions in the source code] maintain track of access to

data elements "col.5, li.5-13; fig.1A, ref.105; The term "process interface" has been treated by the

examiner to include the tracking of relationships between functions and data in compiling source

code.), displaying distinction between public data and private data, said public data being

external data used as interfaces to processes in an other division, and private data being internal

data used only within processes in a division (column 6, lines 35-64 and column 10, lines 12-24;

"a data coverage specification" specifies public data and private data, where the results are

displayed to a developer upon completion of execution using the "visualization tool").

Per Claims 7 (Amended), 8-11 & 12 (Amended):

Page 4

Art Unit: 2124

These claims represent the method associated with the apparatus of claims 1-6, respectively. They are rejected for the same reasons as cited above, with the method referenced at the following location (col.1, li.66 to col.2, li.4).

Per Claims 13 (Amended), 14-17 & 18 (Amended):

These claims represent the medium associated with the apparatus of claims 1-6, respectively. They are rejected for the same reasons as cited above, with the medium referenced at the following location (col.11, li.41-62; fig.7).

Response to Arguments

10. Applicant's arguments with respect to claims 1-5, 7-11 and 13-17 have been fully considered but they are not persuasive.

In the remarks, the applicant argues that:

a) Rejections under 35 U.S.C. § 102 (e)

In the detailed rejection of independent claim 1, on page 4 of the Office Action, the examiner cited column 5, lines 9-25 of Mattson as teaching a means for examining a data item access state in a program. That section of Mattson discusses using a counter to track the number of accesses to data elements (Mattson, col. 5, lines 9-11 and 17-21).

Independent claims 1, 7, and 13 of the subject application have been amended herein to recite "examining an access state and a number of accesses of a data item" and "analyzing degree of association relationships between processes and data items based on said access state and the number of accesses of the data item." As amended, independent claims 1, 7, and 13 recite both

Art Unit: 2124

the number of accesses and the access state. Independent claims 1, 7, and 13 (as amended herein) are patentably distinguishable over Mattson, because the section cited by the examiner as anticipating the access state relates instead only to the number of accesses, which is now clearly and separately recited in each independent claim. In addition, dependent claims 2-5, 8-11, and 14-17 of the subject application (as amended herein) are allowable based in part on their dependency, directly or indirectly, from one of independent claims 1, 7, and 13.

Examiner's response:

Examiner strongly disagrees with applicant's assertion that Mattson, Jr. fails to disclose the claimed limitations recited in claims 1, 7 and 13. Mattson, Jr. clearly shows each and every limitation in claims 1, 7 and 13. As previously pointed out in Paper no. 7, Mattson, Jr. teaches examining an access state and a number of accesses of a data item in said program (col.3, li.31-40; col.5, li.9-25) and an analyzer for analyzing degree of association relationships (col.3, li.31-40) (discussing the color-coding of elements to distinguish between the number of data accesses) between processes and data items based on said access state and the number of accesses of the data item, each said process being at least one of a program, a set of programs and a program section (col.1, li.66 to col.2, li.15; col.2, li.25-28; col.3, li.31-40; the color-coding of elements defines an access state; for example, Black would indicate a high access level, Pink would indicate a low access level, and Red would indicate unaccessed items).

In addition, see the rejection above in paragraph 9 for rejection to claims 1-18.

Art Unit: 2124

11. Applicant's arguments with respect to claims 6, 12 and 18 have been considered but are

moot in view of the new ground(s) of rejection.

Conclusion

12. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

13. Any inquiry concerning this communication from the examiner should be directed to

Qamrun Nahar whose telephone number is (703) 305-7699. The examiner can normally be

reached on Mondays through Thursdays from 9:00 AM to 6:30 PM. The examiner can also be

reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Kakali Chaki, can be reached on (703) 305-9662. The fax phone number for the

organization where this application or processing is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 305-3900.

ON

February 13, 2004

Landi Cha.

Page 7

KAKALI CHAKI SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100